Phone Accessibility

One of the nice things about smart phones and computers is that you can change the settings to meet your needs, and almost all device have accessibility settings baked into the operating systems.

In every device I have used, accessibility is available under device settings.

iOS Settings

On an Apple device, the settings icon is usually located on the Dock.

Look for the gear icon like the one on the right to access your settings.

Android Settings

On Android device, the settings icon is always available from the Quick Settings, which appears when you drag your finger from the top of the screen. It is also available in the App drawer, which appears when you swipe on your screen.

Look for a gear icon like the one on the right.

Accessibility Settings

Both Android and iOS devices should have Accessibility available from the main settings menu.

Open your device settings. Scroll down until you see Accessibility.

Visibility Enhancements

Visibility enhancements include things like font size, font style, contrast, brightness, and screen zoom.

Hearing Enhancements

These include things like transcription and caption / voice over and spoken content, and hearing aid support

Screen Reader

This provides audio guidance for navigating your device.

Touch Accommodations

These allow you to change hold duration, repeated touches, and similar touch-based interactions.

Flash Alerts

Flash alerts allow you to use the camera flash to notify you of incoming calls and texts.

Lock Screen

You can change how quickly the screen locks if you are not interacting with it. It is important to allow the device to lock when not in use, but a longer time-out is useful, especially if you're movements are slower than they used to be.





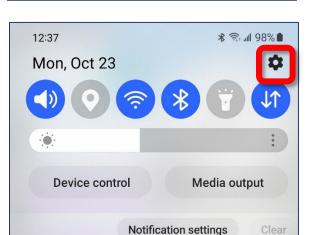
Android

Android Settings

Most of the things you might want to change or personalize will be accessed from Settings. You can access your settings from quick settings, from an icon on your home screen (if you have one there—many people don't) or from your App Drawer. Once you have your settings open, you can scroll through the various menus or search from the Search / Finder box.



- 1. Drag your finger down from the top of the screen. It helps to start a little bit above the active screen.
- 2. Your **Quick Settings** will appear. This has toggles for commonly used services, such as wireless, Bluetooth, and Volume. It should also have a gear icon which is your settings icon. Tap on the gear icon to open your device settings.



Android Accessibility

.There are many different things you can do to make your device easier to use. Many of these options are located in your Settings under **Accessibility**.

Display

One of the easiest things to change on your device is to change the font size. This makes all the text larger.

Font Size

- 1. Open your **Settings**.
- 2. Search for **font**.
- 3. Select Font size and style.
- 4. Use the slider to make the text larger as needed.

K Font size and style	
Main text will look like	this.
Font size	- A
Font style Default	

Hearing Enhancements

- 1. Open your **settings**.
- 2. Select Accessibility.
- 3. Scroll to Hearing enhancements.

Hearing Aid Support

Your audiologist should be able to help you connect your hearing aids to your phone.

Live Caption

Captions speech that comes from your devices, like videos and podcasts.

Live Transcribe

Captures speech and sound and sends them to your screen as text.

Visibility Enhancements

- 1. Open your **settings**.
- 2. Select Accessibility.
- 3. Scroll to Visibility enhancements.

Remove animations

Reduces automatic movement in apps and settings.

Reduce transparency

Removes transparency to increase contrast.

Magnification

Temporarily zoom your screen.

Magnifier

View real world objects, larger.

Real Time TextLive transcribeLive Caption OffCaption preferenceSound detectorsHearing aid supportAmplify ambient soundAdapt Sound	< Hearing enhancements	
Live Caption Off Caption preference Sound detectors Hearing aid support Amplify ambient sound	Real Time Text	
Off Caption preference Sound detectors Hearing aid support Amplify ambient sound	Live transcribe	
Sound detectors Hearing aid support Amplify ambient sound		
Hearing aid support Amplify ambient sound	Caption preference	
Amplify ambient sound	Sound detectors	
	Hearing aid support	
Adapt Sound	Amplify ambient sound	
	Adapt Sound	
Mute all sounds	Mute all sounds	

< Visibility enhancements	
Remove animations Prevent some screen effects. Useful if you're sensitive to animation or screen movement.	
Reduce transparency and blur Reduce visual effects on dialogs and menus to make them easier to see.	
Color correction Off	
Extra dim	
Size and zoom	
Magnification	
Magnifier	

Interaction and Dexterity

Interaction and dexterity provides modifications for those with touch related issues like tremor and mobility.

- 1. Open your **settings**.
- 2. Select Accessibility.
- 3. Scroll to Interaction and dexterity.

Answering and Ending Calls

Your phone can read caller names aloud, when those names are available.

< Interaction and dexterity

Touch settings

Touch and hold delay Short (0.5 seconds)

Tap duration

Set how long an interaction needs to be held to be recognized as a tap.

Ignore repeated touches

Set a time within which to ignore repeated touches.

Mouse and physical keyboard

Auto action after pointer stops

Sticky keys

When you press a modifier key like Shift, Ctrl, or Alt, it will stay pressed so you can enter keyboard shortcuts one key at a time.

Slow keys

Lock Screens and Security

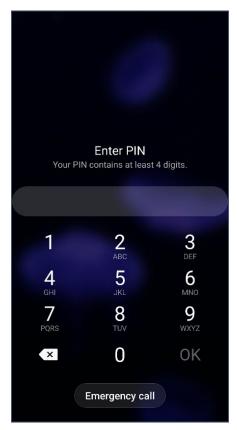
Your screen should automatically lock when you walk away from your phone. You have the option of a setting a Pattern, a PIN, or a Password. I recommend using a PIN (Personal Identification Number) because it's more secure than a pattern, but easier to type than a password. (The keyboard for a PIN is larger.)

You can also set up biometrics, and use your fingerprint or face or iris to login.

From your lock screen, you have the ability to make an emergency call.

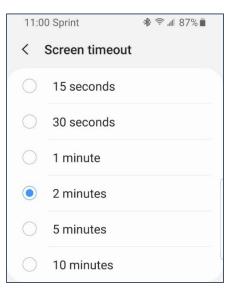
Turning On Your Lock Screen

- 1. Open your Settings. (See page 3)
- 2. Tap Lock screen.
- 3. Tap Screen lock type.
- 4. Select the type of screen lock (I recommend PIN).
- 5. Set your PIN. I recommend using at least 6 digits.
- 6. Immediately make note of your PIN in a safe place.



Changing Your Screen Timeout

- 1. Open your Settings. (See page Error! Bookmark not defined.)
- 2. Search for **Screen timeout**.
- 3. Select Screen timeout.
- 4. Lengthen the time before your screen timeout occurs.

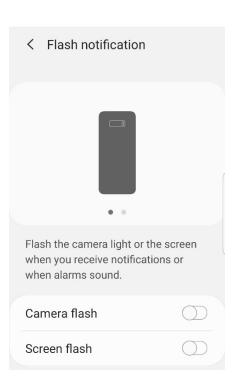


Flash Alerts

Flash alerts cause your camera or screen to flash when you receive a notification.

Toggling Flash Alerts

- 1. Open your **Settings**.
- 2. Search for **flash**.
- 3. Select Flash notification.
- 4. Select Camera flash or Screen flash as desired.



iOS

iOS Settings

Changing the behavior of your device is done in **Settings**.

If you have an iPad, settings is divided into two panes. The left pane displays the available options, and the pane gives you further details for the option you selected, as well as various toggles for these options. If you have an iPhone or device with a smaller screen, there is only a single pane that changes with each selection.



iOS allows you to toggle various options to make the device easier to use when you have vision issues.

Brightness

- 1. Open **Settings**.
- 2. Scroll down until you find **Display & Brightness**.
- 3. At the top, adjust the slider to the right to make the screen brighter.

Text Size

- 1. Open Settings.
- 2. Scroll down until you find **Display & Brightness**.
- 3. Tap Text Size.
- 4. Tap the slider until you find the desired text size.

Voice Control

Voice Control allows you to manipulate your digital device using your voice rather than using touch.

Subtitles & Captioning

These allow you to read device text, when available.

Turning on Flash Alerts (iPhone *Only*)

- 1. Open Settings.
- 2. Tap General.
- 3. Tap Accessibility.
- 4. Under Hearing, toggle on LED Flash for Alerts.

Settings	Accessibility
GeneralControl Center	Accessibility features help you customize your iPad for your individual needs. VISION
A Display & Brightness	VoiceOver Off >
Home Screen & DockAccessibility	Image: Solution of the soluti
Wallpaper	AA Display & Text Size >
Siri & Search Touch ID & Passcode	Motion > Spoken Content >
Battery	Audio Descriptions Off >
🖖 Privacy	PHYSICAL AND MOTOR
App Store	Touch >
💽 Wallet & Apple Pay	Switch Control Off > Voice Control Off >
Passwords	Home Button >
Mail	Apple TV Remote >
Contacts	Keyboards >

Display & Text Size

- 1. Open Settings.
- 2. Scroll down and tap Accessibility.
- 3. Select **Display & Text Size**.

Contrast

Increases the contrast between text and background.

Reduce Transparency

Increases the contrast of text.

Bold Text

Makes device text bold.

		🗢 75% 🔳
<	Back Display & Text Size	
	Bold Text	
	Larger Text	Off >
	Button Shapes	
	On/Off Labels	$\bigcirc \circ$
	Reduce Transparency	
	Improve contrast by reducing transpare blurs on some backgrounds to increase	
	Increase Contrast	
	Increase color contrast between app for and background colors.	preground
	Differentiate Without Color	
	Replaces user interface items that rely color to convey information with alternation	
	Smart Invert	
	Smart Invert reverses the colors of the except for images, media and some ap use dark color styles.	

Hearing Devices

You can link Bluetooth hearing aids to your mobile devices.

Your audiologist should be able to help sync your hearing aids with your iOS device.

- 1. Open Settings.
- 2. Tap General.
- 3. Tap Accessibility.
- 4. Tab Hearing Devices.

Settings	Back Hearing Devices	
Notifications	MFI HEARING DEVICES	
Sounds	Searching	
C Focus	Pair Made for iPhone hearing aids and sound processors. Other hearing aids are paired in Bluetooth settings. HEARING AID COMPATIBILITY	
Screen Time		
General	Hearing Aid Compatibility	
Control Center	Hearing Aid Compatibility improves audio quality with some hearing aids.	
AA Display & Brightness		
🔡 Home Screen & Dock		
Accessibility		

Touch

- 1. Open Settings.
- 2. Scroll down and tap Accessibility.
- 3. Scroll down to the Interaction section and tap **Touch**.

Haptic Touch

How the screen vibrates as you touch it.

Touch Accommodations.

Hold Duration

Allows the device to ignore accidental taps; you must touch the screen for a set duration before a touch is recognized.

Ignore Repeat

Allows the device to ignore accidental multiple taps.

		중 74% ■		
<	Accessibility Touch			
	AssistiveTouch	Off >		
	AssistiveTouch allows you to use your iPac have difficulty touching the screen or if yo require an adaptive accessory.			
	Haptic Touch	>		
Press on the display using a different length of time to reveal content previews, actions and contextual menus.				
	Touch Accommodations	Off >		
If you have trouble using the touch screen, a the following settings to change how the scr will respond to touches.				
	Shake to Undo			
	If you tend to shake your iPad by accident, you can disable Shake to Undo to prevent the Undo alert from appearing.			
	Call Audio Routing Autom	atic >		
Call audio routing determines where audio heard during a phone call or FaceTime audi				

Screen Timeout / Lock

Auto-Lock is how quickly your device returns to the <u>lock screen</u> after being ignored. If this time is too short, it will lock while you're in the middle of reading something, but if the time is too long, someone could have access to all the information on your device if you accidentally walk away and leave it on.

Changing the Auto-Lockout

- 1. Open Settings.
- 2. Select Display & Brightness.
- 3. Tap Auto-Lock.
- 4. Set the desired time. Do NOT choose **Never**. If you choose a longer time period, get in the habit of closing your device with the power key when you are done using it.

8:36 AM Wed Aug 3	Kernel Back Auto	<i>4</i> 奈 73% ■) -Lock
Settings		
Q Search	2 minutes	
	5 minutes	
General	10 minutes	 ✓
Control Center	15 minutes	
AA Display & Brightness	Never	
🗒 Home Screen & Dock		
(f) Accessibility		